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Datasheet for ABIN457554
anti-HPV18 E7 antibody (AA 1-35)

3 Images

Overview

Quantity:	100 µg
Target:	HPV18 E7 (HPV-18 E7)
Binding Specificity:	AA 1-35
Reactivity:	Human Papillomavirus (HPV)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HPV18 E7 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant full-length HPV-18 E7-protein purified from E. coli
Clone:	10A8
Isotype:	IgG1
Specificity:	Reacts with HPV-18 E7-protein.
Purification:	purified with Protein G affinity chromatography

Target Details

Target:	HPV18 E7 (HPV-18 E7)
Abstract:	HPV-18 E7 Products
Target Type:	Viral Protein

Target Details

Background: Human papillomaviruses(HPV) are small DNA viruses which infect epithelia of the skin and mucosa. Over 90 types have been identified and they mostly cause a variety of benign lesions such as warts and verrucae. However, some subtypes, notably types 16 and 18, 31 and 33, have been confirmed as agents which cause cervical cancer. Human Papillomavirus (HPV) E7 proteins have cellular transforming and trans-activating activities

Application Details

Application Notes: ELISA:1: 256 000, WB: 1: 1000, IP 1:500. Monoclonal antibody working titer has to be established practically for each particular antigen and assay format

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/ml

Buffer: PBS pH 7.4, with 0.1%

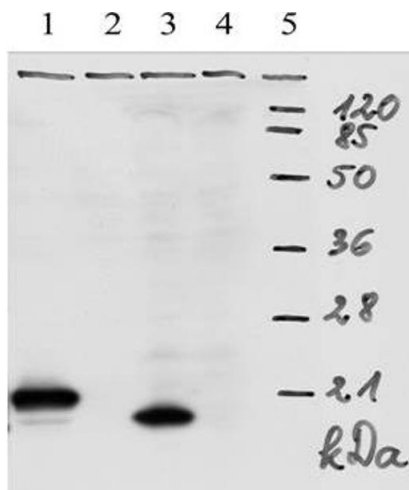
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles.

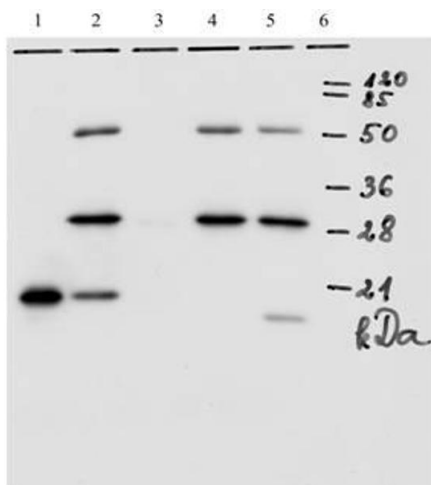
Storage: -20 °C

Storage Comment: This product is shipped in non-frozen liquid form in ambient conditions



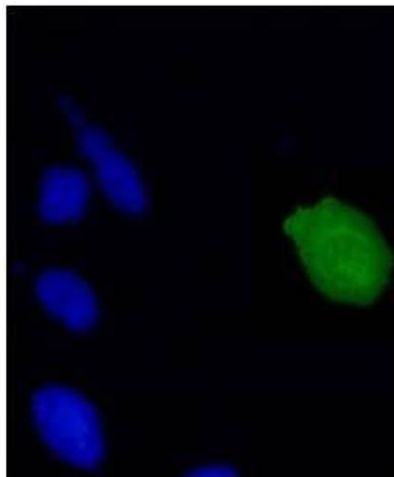
Western Blotting

Image 1. Western-Blot analysis of HPV-18 E7 protein. WB was carried out with 10A8 Mab using the lysates of U2OS, HeLa and SiHa cells. 1: U2OS with plasmid expressing E7 protein, 2: plain U2OS cells. 3rd and 4 th lane are plain HeLa and SiHa cells accordingly. The band in the 3rd lane represents non-specific binding. 5: marker.



Immunoprecipitation

Image 2. IP analysis of HPV-18 E7 protein. 1: detection of E7 protein by Mab 10A8 in lysate of U2OS cells. 2: the lower band is precipitated E7, upper bands are light and heavy chain of Mab. 3: precipitation without mab 10A8. 4: IP exp. with plain U2OS cells. 5: IP exp. with plain HeLa cells, where the lower band is non-specific binding. 6: marker.



Immunofluorescence

Image 3. IF analysis of HPV-18 E7 protein in U2OS cells. IF was carried out with U2OS cells transfected with plasmid expressing HPV-18 E7 protein. All the nuclei were stained by DAPI. Green color represents nucleus-localized HPV-18 E7 detected by Mab 10A8. IF analysis of E7 protein show similar result also in HeLa cells.